

CLAIMS

*part A2*

1. ~~Coextrusion binder comprising:~~  
- 5 to 30 parts of a polymer (A), itself  
5 comprising a blend of a polyethylene (A1) of relative density between 0.910 and 0.940 and of a polymer (A2) chosen from elastomers, very low-density polyethylenes and metallocene polyethylenes, the (A1) + (A2) blend being cogenerated with an unsaturated carboxylic acid;  
10 - 95 to 70 parts of a polyethylene (B) of relative density between 0.910 and 0.930;  
- the blend of (A) and (B) being such that:  
. its relative density is between 0.910 and 0.930,  
15 . the content of grafted unsaturated carboxylic acid is between 30 and 10,000 ppm,  
. the MFI (ASTM D 1238, 190°C/2.16 kg) is between 0.1 and 3 g/10 min., MFI standing for the melt flow index.

*part A3*

20 2. ~~Binder according to Claim 1, such that its relative density is between 0.915 and 0.920.~~

25 3. ~~Binder according to Claim 1 or 2, in which the comonomer of (A1) is the same as that of (B).~~

4. ~~Binder according to any one of the preceding claims, in which (A), that is to say cogenerated (A1) + (A2), is such that:~~

30 - (A1) comprises at least 75 mol% of ethylene and has an  $MFI_2/[\eta]^{-8.77}$  ratio greater than 15 in absolute value;

35 - (A2) comprises at least 50 mol% of ethylene;  
- (A2) has an  $MFI_2/[\eta]^{-8.77}$  ratio greater than 15 in absolute value;  
- its ethylene content is not less than 70 mol%;  
- the  $MFI_{10}/MFI_2$  ratio is between 5 and 20, where  $MFI_2$  is the melt flow index at 190°C under a load of 2.16 kg, measured according to ASTM D 1238, and  $MFI_{10}$  is the melt flow index at 190°C under a load of 10 kg according to ASTM D 1238, the intrinsic viscosity  $[\eta]$

denoting the viscosity index in dl/g of a polymer measured in a decalin solution at 135°C.

*sub A 4*

5. Multilayer structure comprising a layer comprising the binder of any one of the preceding claims and, directly attached to the latter, a layer (E) of nitrogen-containing or oxygen-containing polar resin, such as a layer of polyamide resin, of an aliphatic polyketone, of a saponified ethylene-vinyl acetate copolymer (EVOH) or of a polyester resin, or 10 else a metal layer.

6. Structure according to Claim 5, in which either a polyolefin layer (F) or a layer of a resin chosen from the resins of the layer (E) or a metal layer is directly attached on the binder side.

15 7. Structure according to Claim 6, respectively comprising an HDPE layer, a layer of the binder of the invention, a layer of EVOH or of an EVOH alloy, a layer of the binder of the invention and an HDPE layer.

20 8. Rigid hollow bodies consisting of a structure according to any one of Claims 5 to 7.

9. Petrol tank comprising a structure according to Claim 7.

*add  
B7*

*adds*

*ADD 2  
D1*